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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/008,210	11/08/2001	Masaaki Iwasaki	21334-1089	2163

7590 04/28/2004
Tyco Technology Resources
Suite 450
4550 New Linden Hill Road
Wilmington, DE 19808

EXAMINER

VU, HIEN D

ART UNIT	PAPER NUMBER
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2833

DATE MAILED: 04/28/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/008,210

Applicant(s)

IWASAKI, MASA AKI

Examiner

Hien D. Vu

Art Unit

2833

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 29 December 2003.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 19-30 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 19-30 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

Art Unit: 2833

1. Claims 19-30 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 19, lines 4-6, it is unclear how the bent portion could flex to allow the housing to move along a surface of the circuit board.

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 19-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Davis (5,540,598) in view of French (963) and Johnescu et al.

Insofar as the claims can be understood, Davis, French and Johnescu are applied as follows: Davis, Figs. 1-2 show an insulating housing 2, a plurality of contacts 20 each having contact portion for electrically connecting with mating contacts, a contact section (22, 36) having a bent portion which flexes to allow the housing to move along a surface of a circuit board 23, an alignment plate 28 having guide holes 31 and positioning posts 18. Davis does not show the positioning posts having ribs. Johnescu, Figs. 2B & 2C show positioning post 156 having ribs 158. It would have been obvious an obvious to one with skill in the art to modify the connector of Davis by providing the positioning posts with ribs, as taught by Johnescu, in order to secure the connector to the circuit board.

As to claim 20, the bent portion 22 is arranged at an intermediate point along the length of the contact.

As to claims 21-23 a first set of contacts having a bent portion 36 larger than the bent portion 22 of a second set of contacts.

As to claim 25, Davis does not show the metal attachment 14 having features as described in claim 25. French (963), Fig. 1 show a metal attachment having features as described in claim 25. It would have been obvious to one with skill in the art to modify the connector of Davis by replacing the metal attachment with a metal attachment having features as described in claim 25, as taught by French, in order to provide better securing to the circuit board.

As to claim 26, the ribs 158 extend parallel to the posts.

As to claim 27, the posts extend further toward the circuit board than the contact sections.

As to claim 29, it would have been obvious to modify the guiding holes of Davis to have a shape of converges, as taught by Johnescu, in fig. 2C, in order to guide the contact sections.

As to claim 30, it would have been obvious to provide the alignment of Davis plate with latch arms, as taught by Johnescu in figs. 2A-2b, in order to secure the plate to the housing.

4. Applicant's arguments with respect to claims 19-30 have been considered but are moot in view of the new ground(s) of rejection.

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

6. Any inquiry concerning this communication should be directed to Hien D Vu at telephone number (571) 272-2016.


HIEN VU
PRIMARY EXAMINER